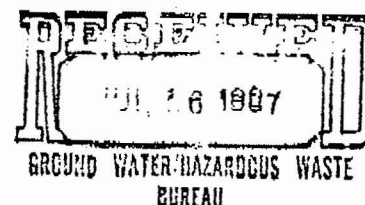


HAND DELIVERED

Mr. Harry Pettengill, Chief  
Licensing Branch 2  
Nuclear Regulatory Commission  
Region IV  
Uranium Recovery Field Office  
Box 25325  
Denver, Colorado 80225



RE: License SUA-1473; Docket 40-8905  
Old Stope Leaching - Chemical Addition  
to Leach Solution

Dear Mr. Pettengill:

Quivira Mining Company plans to proceed with old stope leaching at the Ambrosia Lake operations using recycled mine water with chemicals added. The stope areas where QMC plans to implement the program is in the Section 24 Mine. This program will add sodium bicarbonate and peroxide to the recycled mine water to enhance uranium extraction.

The chemical addition program, discussed in the attachment, includes a groundwater monitoring and sampling program meeting the objectives outlined in your April 28, 1987 letter. As other areas are prepared for chemical addition leaching, descriptions of the activity will be submitted to your office for review prior to initiation.

If you have any questions concerning the Section 24 program, please call me at your earliest convenience.

Sincerely,

A handwritten signature in cursive script that reads "J. C. Stauter".

J. C. Stauter, Director  
Nuclear Licensing & Regulation

JCS/jlm  
Attachment (3 Copies)

cc: T. Morgan - NMEID - DP-362

|                   |              |         |            |
|-------------------|--------------|---------|------------|
| Post-It* Fax Note | 7871         | Date    | # of pages |
| To                | Alan Stauter | From    | R. Stauter |
| Co/Dept.          | NMIS         | Co.     | NMED       |
| Phone #           |              | Phone # |            |
| Fax #             | 7125         | Fax #   |            |

SUBSIDIARY OF KERR-MCGEE CORPORATION

Sequoyah request for  
NRC license amendment

NRC 2.502a - 100

NRC Form 374A  
(5-84)

U.S. NUCLEAR REGULATORY COMMISSION

PAGE 5 OF 10 PAGES

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License number SUA-1473, Amendment No. 26

Docket or Reference number 40-8905

JAN 22 1993

The licensee shall adhere to the interim stabilization schedule for cleanup of contaminated areas as addressed in the submittal dated October 15, 1987.

[Applicable Amendments: 4, 7]

28. The licensee is hereby exempted from the posting requirements of 10 CFR 20.203(e)(2) for areas within the mill provided that all entrances to the mill are conspicuously posted in accordance with Section 20.203(e)(2) and with the words, "Any area within this mill may contain radioactive material."
29. The licensee shall submit a detailed decommissioning plan to the NRC at least six (6) months prior to the planned start of decommissioning activities.
30. Damaged yellowcake drums may be returned for disposal in Tailings Pond No. 2 as described in the licensee's submittals dated January 2 and March 5, 1987, and October 6, 1989. All such disposal shall be documented. In addition, no drums shall be disposed within 150 feet of the dam crest. [Applicable Amendments: 2, 14]
31. The licensee is authorized to process alternate feed materials (raffinate and calcium fluoride sludges) from Sequoyah Fuels Corporation's Gore, Oklahoma facility in accordance with the submittals dated March 31, July 15, and August 6, 1987, and May 15, 1990, with the exception that the yellowcake product shall be maintained in slurry form. [Applicable Amendments: 3, 5, 17]
32. The licensee is authorized to dispose and bury contaminated waste materials resulting from past milling operations into tailings ponds No. 1 and No. 2, in accordance with submittals dated June 10 and August 5, 1987. In addition, the licensee shall adhere to the following requirements. The licensee will maintain detailed disposal records indicating quantities and locations of all waste material disposed in tailings ponds; prior to the disposal of any wastes the licensee shall establish a detailed procedure to describe the handling, preparation, placement and covering of wastes in the specified disposal location; and the licensee shall restrict any disposals in tailings pond No. 2 to locations greater than 150 feet from the dam crest. [Applicable Amendments: 6]
- \*33. The licensee is hereby authorized to inject chemically fortified mine waters in accordance with their July 14, 1987 submittal. The following upper control limits shall be observed: calcium = 35 mg/l, sodium = 253 mg/l, sulfate = 450 mg/l, carbonate/bicarbonate = 303 mg/l, pH = 10.0 standard units. Should any of these limits be exceeded, based upon monthly sampling, the licensee shall immediately suspend injection of chemically fortified waters, notify the NRC, Uranium Recovery Field Office, in writing within 5 days sample for the above parameters on a weekly frequency, and within an additional 25 days, submit a plan to remediate the situation. [Applicable Amendments: 8]
34. The licensee shall implement a ground-water compliance monitoring program containing the following: